

U.S. Department of Energy Building Energy Codes Program

Provider Number: **I014**

Compliance Support: Strategies for States and Municipalities

Course Number: **EC15-T03**

Maria Ellingson

John Umphress

Ryan Meres

Kimberly Newcomer

Date: **March 24, 2015**



Credit(s) earned on completion of this course will be reported to **AIA CES** for AIA members.

Certificates of Completion for both AIA members and non-AIA members are available upon request.

CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.

This course is registered with **AIA**

Course Description

This session will cover recent initiatives in providing direct support to building departments with additional resources to support energy codes and encourage collaboration and information sharing. Specific projects covered will include IMT's City Energy Project and BCAP's Energy Code Ambassadors Program.

Learning Objectives

At the end of the this course, participants will be able to:

- Learn how the CEP and BCAP help states and municipalities get to energy code compliance.
- Learn about the various resources, tools, and trainings that CEP and BCAP offer.
- Learn about strategies that local adopters of CEP and BCAP have used.
- Learn about challenges that local adopters have encountered and steps to get past common roadblocks toward greater energy efficiency.

Transforming the Culture of Energy Codes, via State Compliance Collaboratives and Energy Code Ambassadors

U.S. DOE, Energy Codes Conference

March 2015

Maria Ellingson

Program Director, Building Codes Assistance Project

Agenda

- ▶ Transforming the market / culture of energy codes, via:
 - ▶ State Compliance Collaboratives
 - ▶ Energy Code Ambassadors Program (ECAP)

Common Issues: Code Officials

- ▶ Prioritize “health and safety”; some don’t include energy code/lack building science background
- ▶ Inadequate/inconvenient training
- ▶ Energy code becoming more complex (blower door/duct testing, ERI option, new products)
- ▶ Lack of municipal backing; to encourage development
- ▶ Aging: 30% to retire in 5 yrs, 80% in 15yrs; retirees may not be replaced / budget cuts
- ▶ Local department resources stretched thin
- ▶ Good, hard-working/overworked, dedicated, need/deserve support

Common Issues: Building Industry

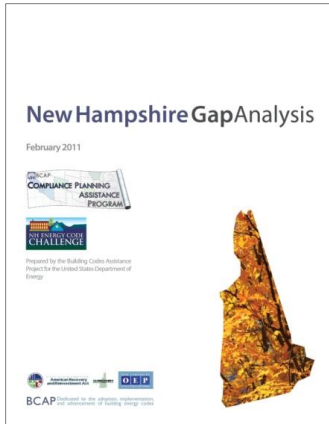
- ▶ Experienced; new techniques hard to implement
- ▶ Energy code becoming more complex
- ▶ Prefer field over classroom; rely on code officials
- ▶ Feel buyers not willing to pay more; don't "sell" EE well
- ▶ Don't have code books; not required to obtain CEUs
- ▶ Can't afford to train subs / subs inconsistent
- ▶ Don't get higher appraised values





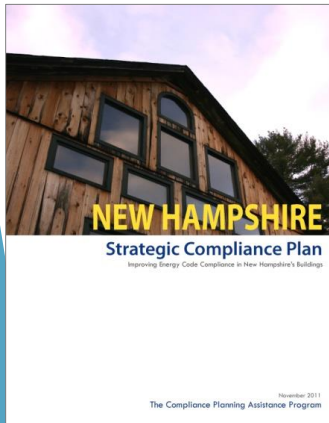
Gap Analysis Report (23 states)

Identified areas states fall short of compliance goals and recommendations to bridge those gaps

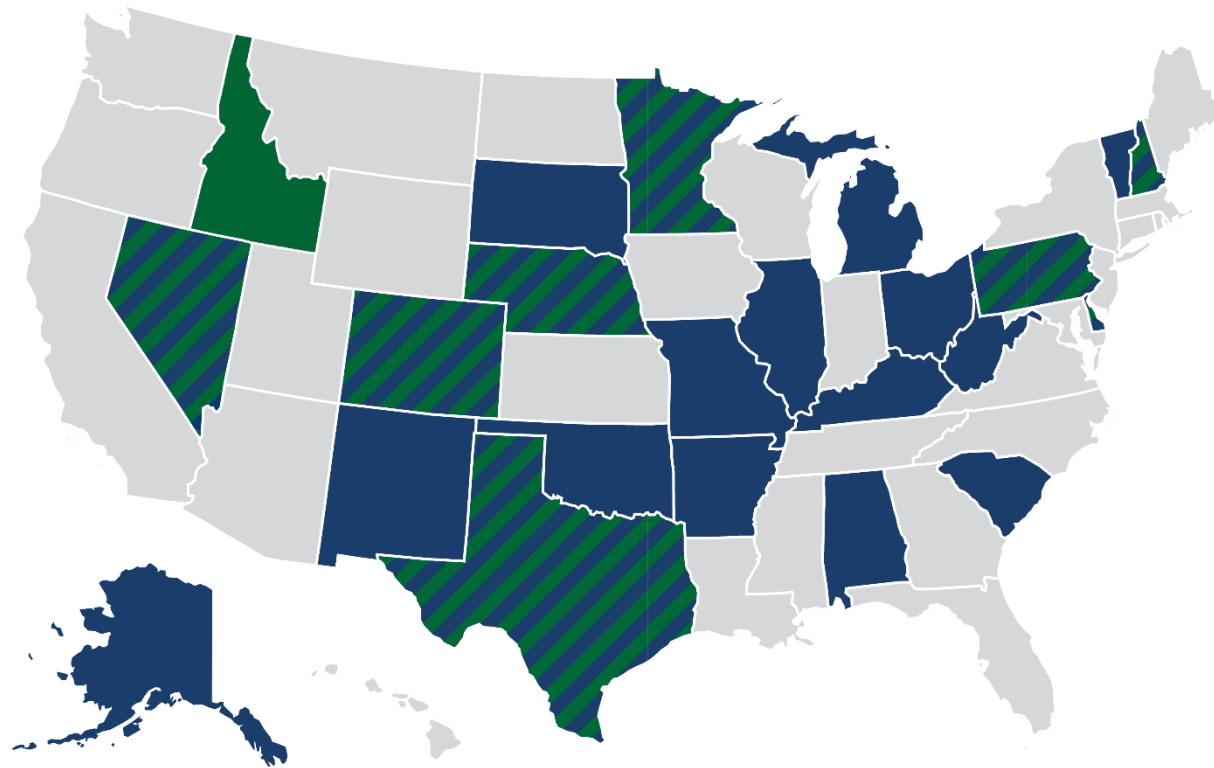


Strategic Compliance Plans (19 states)

Provided roadmap for executing recommendations in the form of action items and projects.

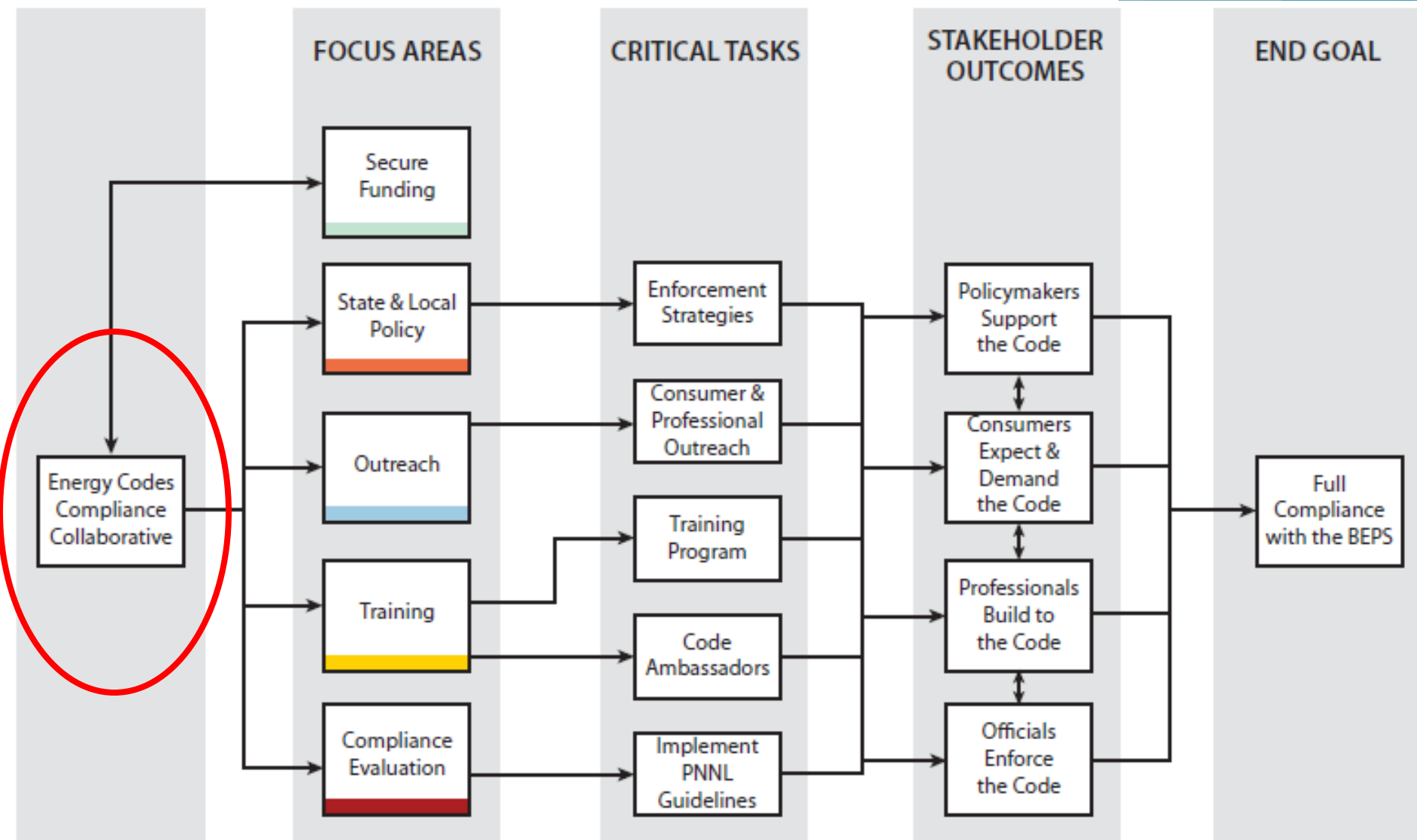


COLLABORATIVES AND COMPLIANCE PLANNING



■ CPA Participating States (23)

■ Compliance Collaborative States (9)



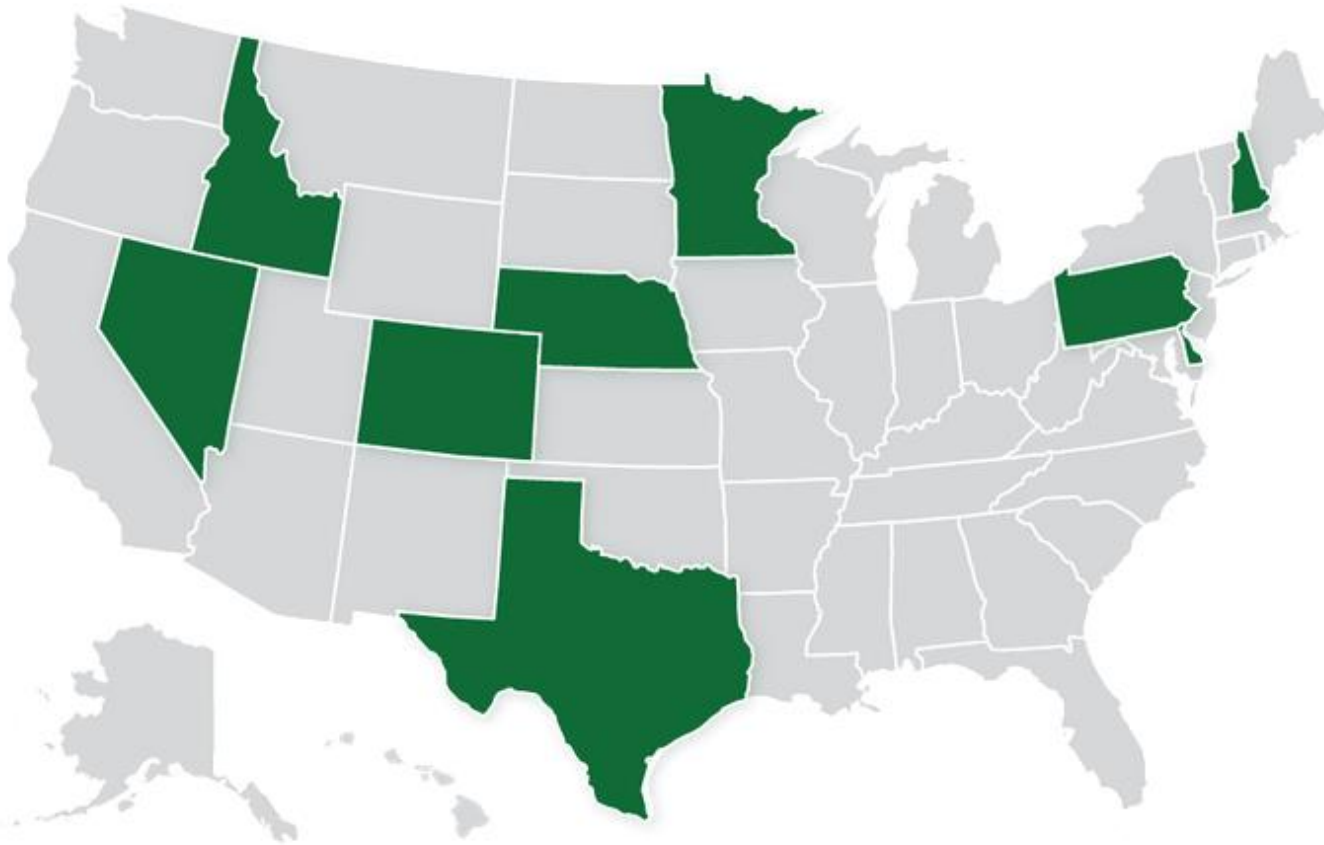
Energy Code Compliance Collaboratives

- ▶ Convenes stakeholders to work on common issues
- ▶ Helps solve problems together
- ▶ Ensure all stakeholders have a voice



- Develop a strategy for meeting energy code compliance goals
- May serve as an advisory board to state department or policy makers

States with Energy Code Collaboratives



Example of Collaborative Activities: Idaho

- ▶ Consumer attitude survey... then, 3 cities adopted full 2012 IECC; 2 more considering
- ▶ Launched “Builder Relationship Program”: training builders: Building Contractors Association (BCA) annual meeting; next, the Northern Idaho BCA
- ▶ Meets quarterly; core group of specified organizations, plus many more participate
- ▶ The Building Code Board (adopts codes) seeks Collaborative’s input

Example of Collaborative Activities: Nebraska

- ▶ Hosts “Energy Codes 101” for new legislators
- ▶ Planning 8 articles in NE League of Municipalities, Home Builder Association, more
- ▶ Met with utilities to solicit energy code support
- ▶ Influencing increase in university classes on codes
- ▶ Potential study by legislative Urban Affairs Committee on how energy codes working in NE

Other Examples

- ▶ **NH:** Won DOE funding to for “building labeling”. Committee work on specific issues as needed.
- ▶ **PA:** Developing proposal for ECAP and survey of home buyers and professional stakeholders; met with PUC to educate on utility opportunities
- ▶ **CO:** Advise/support state efforts; compliance study
- ▶ **DE, NV, TX:** Advise/support state efforts
- ▶ **MN:** Getting going... focused on technical issues w/new code
- ▶ Collaboratives help relations



Energy Code Ambassador Program

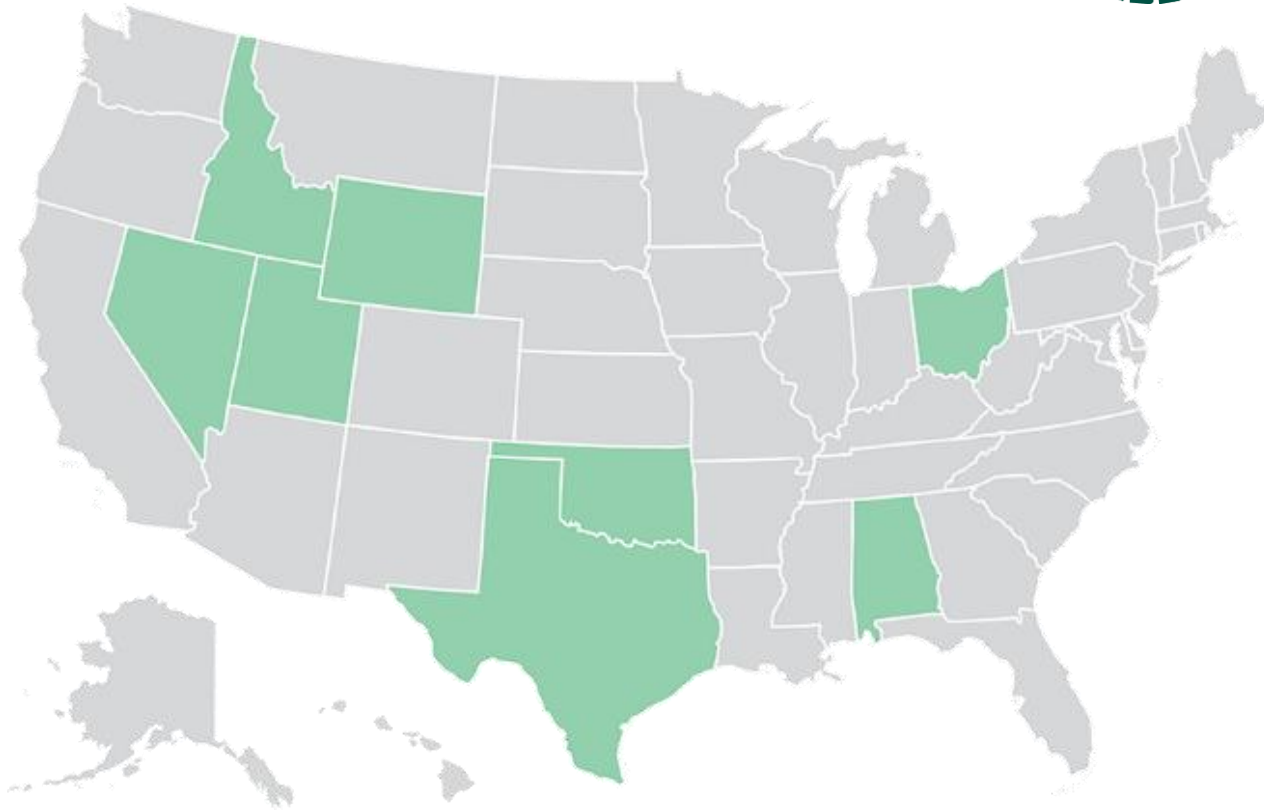


- ▶ BCAP & ICC program
- ▶ Regional peer-to-peer network of support for code officials
- ▶ Formally recognizes expertise; empowers code officials / credible messengers
 - ▶ They understand the challenges and constraints others face

Energy Code Ambassadors are...

- ▶ Diplomatic agents with a mission
- ▶ Experts in energy code provisions
- ▶ A peer-to-peer local resource for code officials and the construction industry
- ▶ Mentors for other code officials
- ▶ Representatives for peer code officials to voice concerns and perspectives
- ▶ Leaders in building a strong local and state infrastructure for energy codes

ECAP PROGRAMS



Ohio ECAP

Mike Rudey,
Bowling Green

Wyatt Simons, Erie County

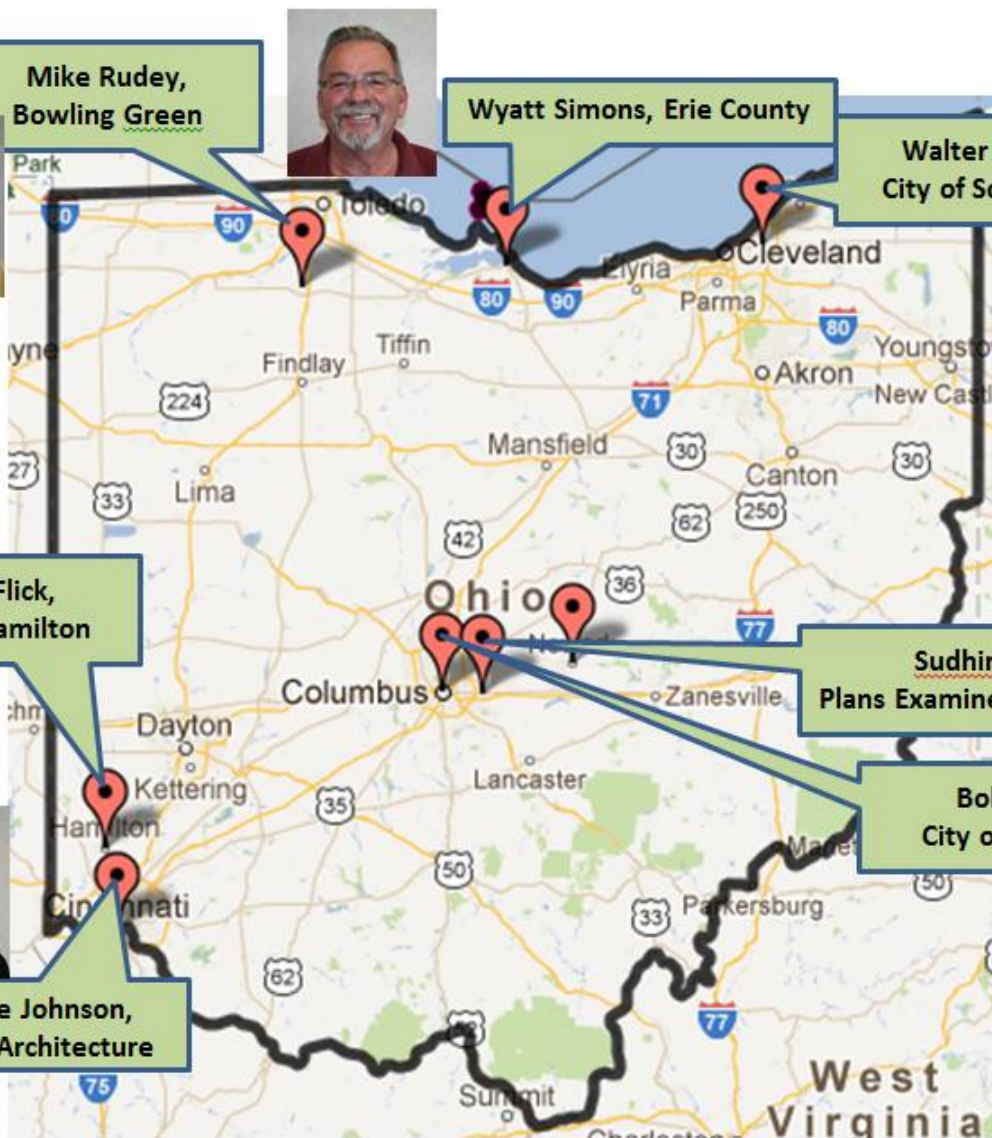
Walter Balester,
City of South Euclid

Jerry Flick,
City of Hamilton

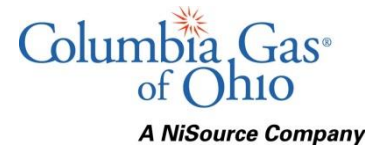
Sudhir Jindal,
Plans Examiner, State of OH

Bob Schutz,
City of Columbus

Stephanie Johnson,
Fine Lines Architecture



Ohio ECAP



- ▶ Utility support provided paid honoraria to offset code official costs - \$500
- ▶ Trained more than 600 code officials over 2013-14 winter

Maria Ellingson

Building Codes Assistance Project

mellingson@bcapcodes.org

(419) 724-4571

WWW.ENERGYCODEOCEAN.ORG

www.bcapcodes.org